

**STAFF REPORT
INFORMATIONAL
101**

A	70	04/19/18 W 10442 W 16001
S	33, 34	R. B. Greenwood

**REPORT ON THE MONITORING OF POSSIBLE SUBSIDENCE,
LONG BEACH UNIT, WILMINGTON OIL FIELD, LOS ANGELES COUNTY**

BACKGROUND:

The City of Long Beach (City) conducts surveys twice each year, usually in May and November, to monitor changes in ground elevation of the Long Beach tidelands and adjacent areas that may occur as a result of oil extraction from the Wilmington Oil Field. Commission staff reviews and interprets the benchmark elevation data from these semiannual reviews. The City reports annually to the Commission staff. This report covers benchmarks surveyed in October 2017 and compares elevation changes that have occurred since completion of the previous survey in November 2016.

The subsidence monitoring is authorized by Chapter 138, Statutes of 1964, First Extraordinary Session and the corresponding Unit and Contractor Agreements, and staff's review and analysis of these data are consistent with Strategy 1.5 of the Commission's Strategic Plan to ensure the highest level of environmental protection and public safety in the production and transportation of oil and gas resources.

STAFF ANALYSIS AND CONCLUSION:

Based on the data collected by the City, elevations throughout the Alamitos Bay, Naples, Central City, Civic Center areas, and offshore drilling islands were stable with no indication of decline. The Central Harbor area consisting of Piers B, C, D, S, and T experienced a net elevation increase of up to 0.11 foot (1.3 inches) that was observed in the second half of 2017. Other than oilfield operations factors, the cessation of near-surface dewatering activities related to construction of the new Gerald Desmond Bridge may have contributed to the elevation rise. The increase is considered minor and adjustments to waterflood requirements will be made as necessary by the City to ensure there is no over-pressurization in the oil producing zones. The elevation increase is not expected to continue.

The results of the next complete year of regular elevation surveys will be reported to the Commission after the data have been received and analyzed by the Commission's staff.

STAFF REPORT NO. **101** (CONT'D)

EXHIBIT:

- A. Location Map

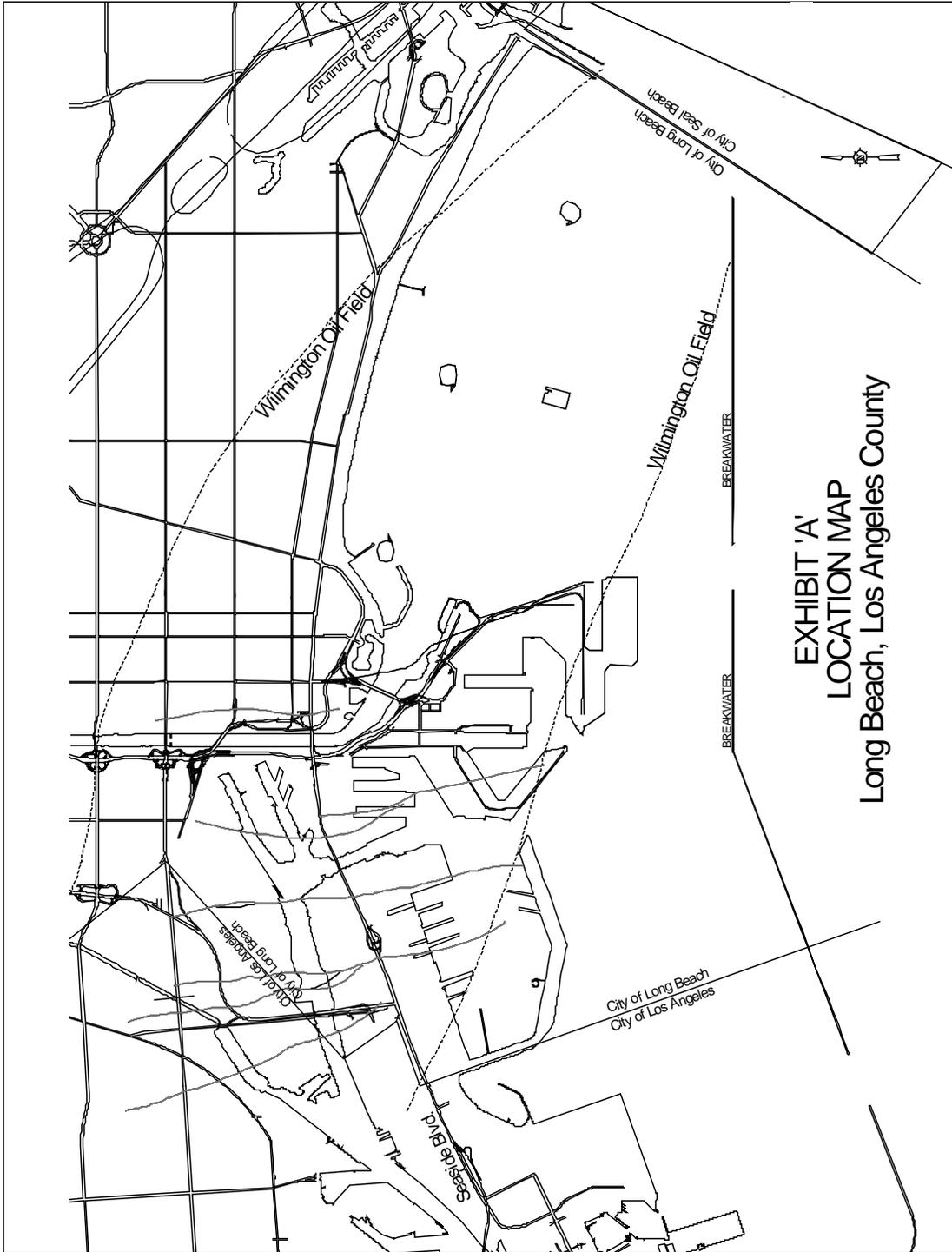


EXHIBIT 'A'
LOCATION MAP
Long Beach, Los Angeles County